letin of Environmental Contamination and Toxicology

Volume 17 • 1977

Springer-Verlag
New York · Heidelberg · Berlin

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in U.S.A.

© 1977 by Springer-Verlag New York Inc.

INDEX

Aflatoxin, effect on distribution of Fe,Cu,Zn & Mn in rats 33
Agriculture, DDTR relocation affected by cultural practices 323
Air, ambient contamination from welding operations 521
deposition of organochlorines from the atmosphere 219
trapping and analysis of atmospheric 2,4-D residues 369
Aldrin, dihydochlordene dicarboxylate in soil treated with 712
Algae, effects of dieldrin and aldrin on photosynthetic pigments of 534
Analysis, AA of manganese in humans 660
a simple method for cholinesterase 331
comparison of GLC & HPLC, of parathion residues 253
elimination of sulfur interference in pesticides 573
GLC of xylenols in wastewater 764
HPLC of parathion and paraoxon 261
microcholinesterase by pH-stat 542
of PCB's and DDT by adsorption on membrane filters 391
of toxaphene 455
steam distillation apparatus for residue extraction 631
waterborne asbestos 551
Animals, lead in, from highway proximity 311
Arsenic, post-mortem detection in fish killed by 373
residues in soybeans from MSMA simulated drift 165
Asbestos, analysis of waterborne 551
Azo compounds, biodegradation of, in sludge 214
inhibition of growth of microorganisms by 208
Birds, cholinesterase levels in, from sprayed forests 379
effect of carbaryl on bobwhites 184
effect of prolonged exposure to carbaryl 360
effects of DDT and derivatives on eggshell formations 697
inhibition of calcium ATPase in duck 591
organochlorines in Spanish wild, 603
PCT in British birds 618
toxicity of chlorpyrifos on ducks 105
Cadmium, effects on adult fish 16
effects on blood characteristics in rat 585
levels in humans 692
sensitivity of fish, eggs, and larvae to 645
Carbamates, effects on bobwhite, weight & fat reserves 184
Carbaryl, effects on growth and reproduction in birds 360
Carbon monoxide, effects on insects 98
Chlorination, toxicity of repeated, to fish 416
Chlorophenols, effects on neuromuscular activity in crayfish 40
Cholinesterase, a simple method for 331
microanalysis with a pH-stat 542
Chromium, and fungal parasites on carp eggs 653
DDT, effects on eggshell formation 697
volatilization from desert soil 317
DDTR relocation from cotton cultural practices 323
2,4-D, trapping and analysis of atmospheric residues 369
2,4-D & 2,4,5-T, persistence insoil and vegetation 1
Dieldrin, accumulation and elimination in catfish 637
Diphenylamine, toxic impurities in 204

Endrin, toxicity to drug treated fishes 768
Environment, fate of PCB and effect on 686
Enzymes, chronic exposure of mercury compounds to rat 447
effects of organophosphates on yeast 342
inhibition of ATPase in the duck 591
Fish, accumulation and elimination of dieldrin in 638
acute toxicity of lignosulphonates to 692
chlorohydrocarbons in trout 90
effects of cadmium on adult 16
effects of cadmium on adult 16
effects of solvents on ATPase inhibition in 74
heavy metal concentrations in 190
hepatic growth and low pH 667
induction of enzymes by pollutants in 512
mercury accumulation by 595
mercury levels in freshwater 82
post-mortem identification of arsenic in 373
sensitivity of eggs, larvae and adult fish to cadmium 645
toxicity of endrin to drug induced 768
toxicity of flame retardant fabrics to 499
uptake and elimination of dieldrin by 278
Flame retardants, toxicology of 720
Fungicide (Terrazole) effects on hepatic enzymes in mice 225
Fungicides, effect on parathion residues 293
effects of multiple applications on non-target fungi 468
effects of benomyl on plant photosynthesis 431
Gamma radiation effects on cyanide solution 714
Heavy metal effects of nickel on male rats 241
toxicity to softshell clam 137
Heavy metals, reduction by competitive adsorption of plant products 355
concentrations in fish 190
lead distribution in humans 302
Herbicides, effects on Daphnia of chronic atrazine exposure 269
HPLC of organophosphates with an ultraviolet detector 261
Humans, analysis for manganese of exposed 660
cadmium level in 692
distribution of lead in 302
organochlorine residues in fat and blood of 613
PCB's and organochlorines in Canadians 196
Hydrocarbons, analysis in marine biota 408
Insecticide resistance 163
Insecticides, residues in vegetation and soil 743
sprayed on forests, effects on bird cholinesterase 379
Insects, influence of solvents on ATPase inhibition by pesticides 74
PCB's in, from Mississippi 387
Lead, effect on animal growth 759
levels in small animals associated with highways 311
pulmonary distribution in humans 302
Lignosulphonates, acute toxicity to trout 702
Mercury, accumulation by largemouth bass 595
competition between river sediment and bacteria for 505
effect on NADH and protective role of oxalacetate 112
excretion by germ-free mice from methyl mercury chloride ingestion 603
in seston of a bay estuary 733

Mercury, protective action of selenium in organisms 132
removal from water by rubber 150
levels in fresh water fish 82
Methoxychlor, spray program effects on Rouge River 121
Mice, effects of Terrazole on drug metabolizing enzymes 225
Microorganisms, bioconcentration of Toxaphene by 564
effects of azo compounds on growth of 208
effects of fungicides on non-target 468,477
Microsomes, metabolism of maleic hydrazide in drug induced rat 108
Mutagenicity testing of styrene and styrene oxide 739
Organisms, effects of acute exposure to atrazine 269
effects of chlorophenols on neuromuscular systems 40
effects on polychlorinated naphthalenes 399
fate of labelled n-alkalenes 463
protective action of selenium against mercury in 132
toxicity of coal conversion components on 25
tocicity of PCP to crustaceans 622
Organochlorine, accumulation by algae & photosynthetic effects 534
chlordane effects on ova implantation 559
degradation of endosulfan in soil 438
degradation of lindane in soil 424
deposition from the atmosphere 219
determination of toxaphene 455
in lake trout 90
in wild birds in Spain 603
residues in honey & beeswax 168
Organophosphates, chlorpyrifos toxicity to ducks 105
comparison of GLC & HPLC methods for parathion 253
effects of long term exposure in rat 168
effects on esterases in rats 9
effects on yeast growth & catalase 342
effects on pond chemistry & photosynthesis 752
residues as affected by fungicides 293
Parathion, solubility in orange leaf wax 249
PCB's, fate and effect on environment 686
in Mississippi mayflies 387
in wastewater sewage and sludge 49
PCB's & DDT, adsorption on membrane filters 391
PCB's & organochlorines in Canadians 196
PCT in some British birds 618
Pentachlorphenol toxicity to crustaceans 622
Pesticides, effects on development of tadpoles 349
Petroleum, apparatus for bioassay 577
Photosynthesis in plants affected by benomyl 431
in ponds affected by chlorpyrifos 752
Phytoplankton, effect of a larval lampricide on 57
Phthalates, and metabolism of drugs 727
Plants, arsenic residues in from MSMA drift 165
persistence of 2,4-D and 2,4,5-T in 1
seasonal sulfur concentrations in 127
Polychlorinated naphthalenes, effects on grass shrimp 399
Rats, dietary and inhalative effects of cadmium on 585
effects of aflatoxin in Fe, Cu, Zn, & Mn 33
effects of chronic exposure to mercury compounds 447

F
S
S
S
S
2
T
T
T
T
T
W
W
We

GENERAL BOOKBINDING CO.
77 401AA 2 013 1 S 2380
QUALITY CONTROL MARK

Rats, effects of chronic mercury exposure to enzymes in 447
effects of long term organophosphate exposure in 168
effects of malathion on esterases in 9
effects of nickel sulfate on 241
2,4,5-T effects on iodide distribution in 670
teratogenicity of ethylene-bis-diisothiocyanate 159
River, effect of methoxychlor spray program on 121
Steroids, as sewage indicators in sediments 491
Soil, DDT volatilization from 317
persistence of 2,4-D and 2,4,5-T in 1
treated with aldrin contains dihydrochlordene dicaboxylate 712
Solvents, effects on pesticide inhibition of ATPase in fish and insects 74
Sulfur, elimination of interference in pesticide analysis 573
seasonal concentrations in plants 127
2,4,5-T and iodide concentration distribution in rats 670
Teratogenicity of ethylene-bis-isothiocyanate in rat 159
Toxaphene, bioconcentration by microorganisms 564
Toxic impurities in diphenylamine 204
Toxicology of flame retardant chemicals 720
Triallate, accidental contamination of milk container material by 146
Wastewater, PCB's in sewage and sludge from 49
Water, competition for mercury between river sediment and bacteria 613
GLC analysis of xylenols in waste- 764
removal of soluble mercury by rubber, from 150
toxicity to fish of flame retardant fabrics immersed in 499
Worker exposure, monitoring study in an orchard 223